

CLAIMS

1. An antifreeze agent used in a close aqueous container comprising:
alkylene glycol;
Inorganic chlorine containing substances, sweeteners, which have multi-hydroxy functional group water.
2. The antifreeze agent of claim 1 further comprising alkylene glycol having a carbon chain of between 3 to 8 carbons.
3. The antifreeze agent of claim 1 wherein said alkylene glycol comprises propylene glycol.
4. The antifreeze agent of claim 1 wherein said alkylene glycol comprises between from about 0.5 to about 60 % by weight of this article.
5. The antifreeze agent of claim 1 wherein said sweetener comprises the sugar alcohols consisting of erythritol, hydrogenated starch hydrolysates, isomelt, lactitol, maltitol, mannitol, sorbitol, and xylitol.
6. The antifreeze agent of claim 1 wherein said sweetener comprises corn syrup consisting of four types D.E. grade. The type I is from 20 to 38 D.E., type II is from 38 to 58 D.E., type III is from 58 to 73 D.E., and type IV is from 73 D.E. and above.
7. The antifreeze agent of claim 1 wherein said sweetener comprises dextrose that its D.E values is 100.
8. The antifreeze agent of claim 1 wherein said sweetener comprises between from about 0.5 to about 90 % by weight of this article.

9. The antifreeze agent of claim 1 wherein said the weight ratio of mixture between water and sweeteners can be varied from 1:2 to 2:1.

10. The antifreeze agent of claim1 wherein said inorganic chlorine containing substance comprises lithium chloride, sodium chloride, magnesium chloride, and calcium chloride.

11. The antifreeze agent of claim1 wherein said inorganic chlorine containing substances comprises magnesium chloride.

12. The antifreeze agent of claim1 wherein said inorganic chlorine containing substances comprises from about 0.2 to about 70 by weight of this article.

13. The antifreeze agent of claim1 wherein said a weight ratio between magnesium chloride and aqueous sweetener can be varied from about 1:13 to about 1.5:1. Also the weight ratio between water and sweetener can be varied from about 1: 2 to about 2:1. The amount of the third component, propylene glycol, can be varied from about 0 to about 75 weight percent of total weight of mixture of calcium chloride and aqueous sweetener.

14. A antifreeze agent, comprising,
about 0.5-50 % by weight of alkylene glycol, said comprising a linear carbon chain of between 3 to 8;
about 0.5-90 % by weight of sweeteners;
about 0.4-70 % by weight of inorganic chlorine containing substances; and
about 5.0-50.0% by weight of water.

15. A antifreeze agent, comprising,
about 0.5-10 % by weight of propylene glycol;
about 20-50 % by weight of sorbitol;
about 50-70 % by weight of magnesium chloride, and
about 20-40 % by weight of water.